

Fig. 1

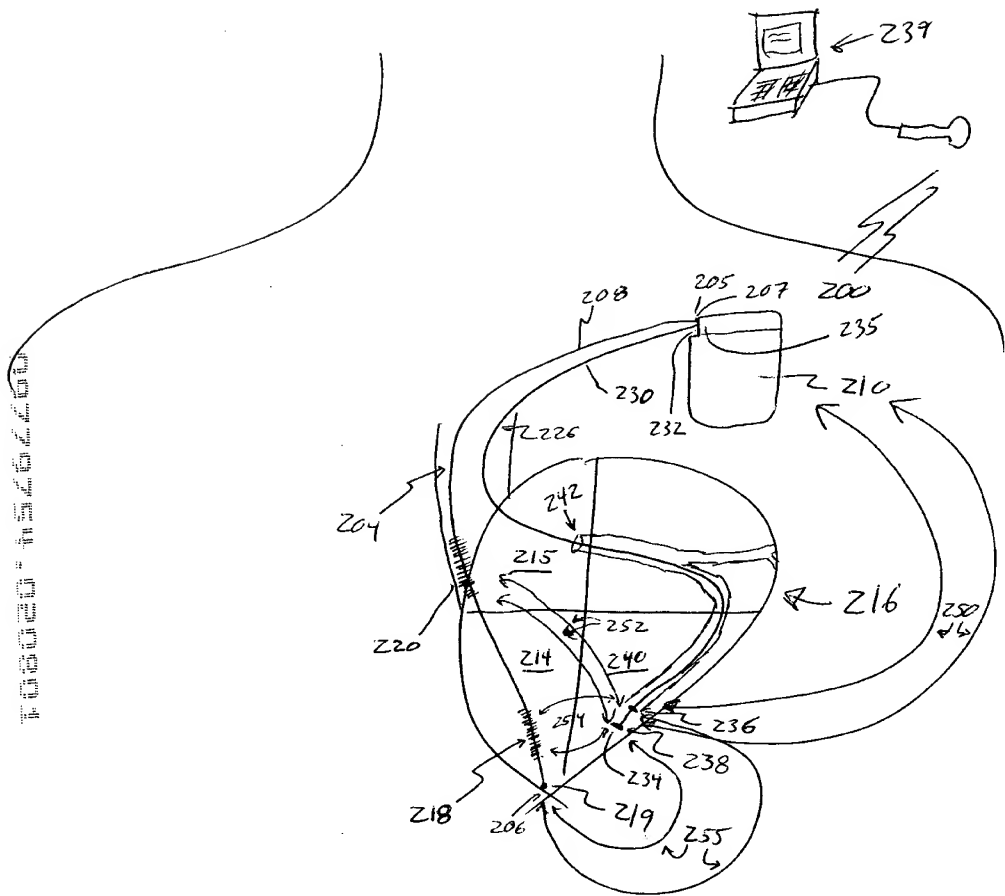


Fig. 2

300

308 310 312 314 316

SWITCH MATRIX 332

Right Ventricle Activity 328

Left Ventricle Activity 334

Pace output 360

Defib output 364

Memory 344

Controller 340

Battery 354

Receiver/Transmitter 350

Medical Device Programmer 348

304

302

Fig. 3

FIG. 4

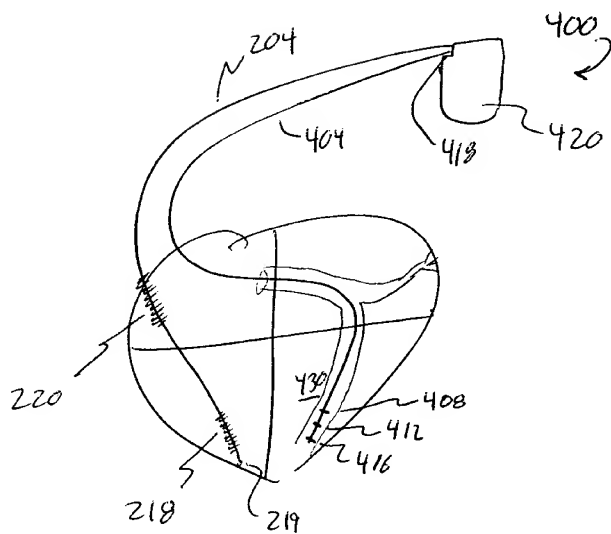


Fig. 4

A hand-drawn schematic diagram of a medical device system. A large, roughly circular structure, labeled 104, represents a body or container. Inside this structure, a curved line is labeled 118. A vertical line segment is labeled 120. A curved line segment is labeled 236. A curved line segment is labeled 238. A curved line segment is labeled 226. A curved line segment is labeled 510. A curved line segment is labeled 500. A curved line segment is labeled 504.




600

610

Implant a First Cardiac Lead Having at Least
a First Supraventricular Electrode

620

Implant Second Cardiac Lead Having at least
a First Left Ventricular Electrode and a
Second Left Ventricular Electrode

630

Program Pacing and Sensing Vectors
Between at least One of the First and Second
Left Ventricular Electrodes and the First
Supraventricular Electrode

640

Deliver Pacing Pulses Between the First and/
or Second Left Ventricular Electrode and the
First Supraventricular Electrode

650

Sense Cardiac Signals Between the First
and/or Second Left Ventricular Electrode and
the First Supraventricular Electrode

FIG. 6

700

710

Implant First Cardiac Lead Having at least a
Right Ventricular Electrode

720

Implant Second Cardiac Lead Having at least
First and Second Left Ventricular Electrodes

730

Program Pacing Pulse and Sensing Vectors
Between at least One of the First and/or
Second Left Ventricular Electrodes and the
Right Ventricular Electrode

740

Deliver Pacing Pulses Between Either the
First and/or Second Left Ventricular Electrode
and the Right Ventricular Electrode

750

Sense Cardiac Signals between the First
and/or Second Left Ventricular Electrode and
the First Ventricular Electrode

FIG. 7

800

810

Implant First Cardiac Lead Having at least a First Right Atrial Electrode and a Right Ventricular Electrode

820

Implant Second Cardiac Lead Having at least First and Second Left Ventricular Electrodes

830

Program Pacing Pulse and Sensing Vectors Between at least One of the First and Second Left Ventricular Electrodes and the First Right Atrial Electrode and the Right Ventricular Electrode

840

Deliver Pacing Pulses Between Either the First or Second Left Ventricular Electrode and the First Right Atrial Electrode and/or the Right Ventricular Electrode According to the Programmed Vectors

850

Sense Cardiac Signals between the First and/or Second Left Ventricular Electrode and the First Right Atrial Electrode and/or Right Ventricular Electrode According to the Programmed Sensing Vectors

FIG. 8

FIG. 9

910

Implant First Cardiac Lead Having at Least a
First Ventricular Defibrillation Electrode and a
First ventricular Pacing/Sensing Electrode



920

Delivering a Pacing Level Pulse from the First
Ventricular Defibrillation Electrode as a
Cathode to a First ventricular Pacing/Sensing
Electrode as an Anode

FIG. 9

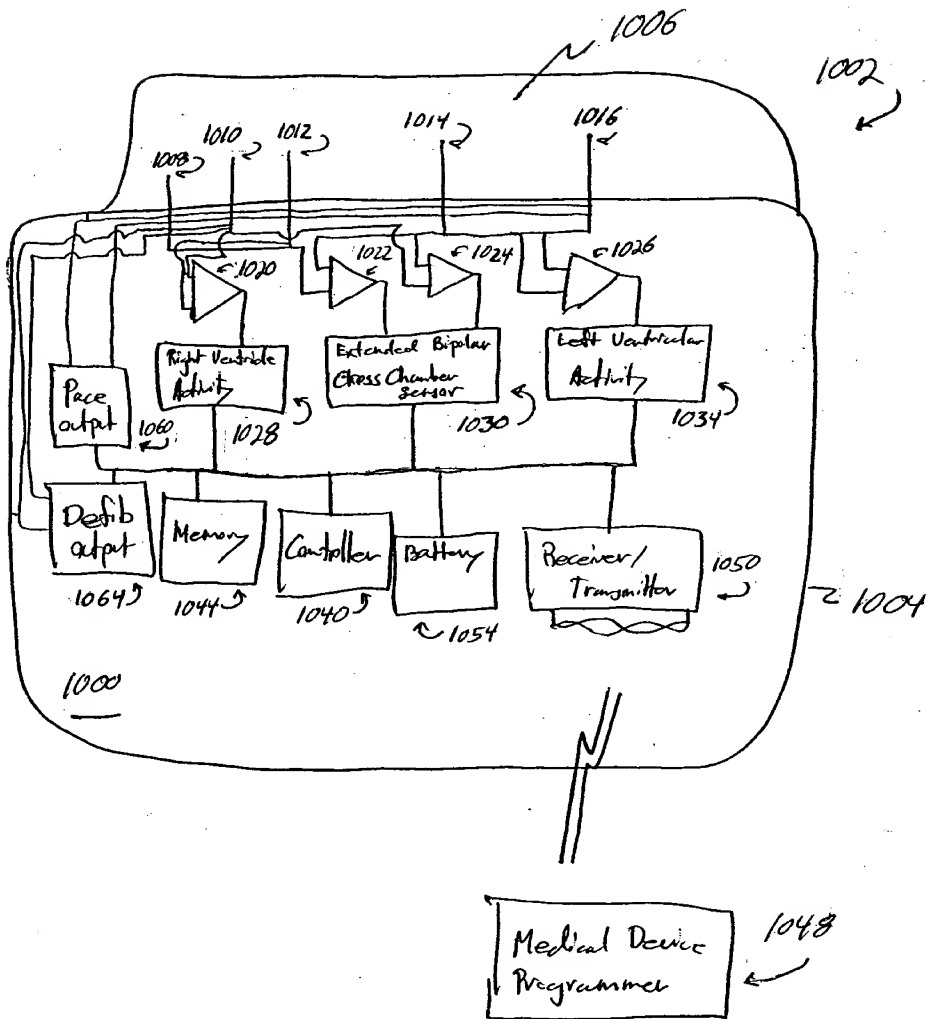


Fig. 10